

WARNER LEWIS

Aircraft Refuelling Solutions



Leaders in Aircraft Refuelling Equipment

Reflection on the Past

Since the formation of the company in 1969, Warner Lewis has concentrated its efforts in the aircraft refuelling industry. Such specialisation has proven to be somewhat unique with the products and services which we offer.

We are pleased to have supplied Velcon filters and Carter aircraft ground fuelling equipment to most airports throughout Europe, Africa and the Middle East from our headquarters in Germany and offices in the UK and France.

Solution for the Present

Today, Warner Lewis is recognised as the leading supplier in our industry. Continuing to be supported by Velcon and Carter we now also supply flow meters from Isoil, completing the package of aircraft refuelling components.

All our products provide superb quality and advanced engineering.

Vision for the Future

It is our aim to continue to achieve the highest standards of service, taking responsibility for specific requirements and so enabling our customers to focus on their business.

We Deliver

Effective Solutions

Advanced Engineering

Innovative Designed Products



Warner Lewis head office Frankfurt



Airport filtration



Refuelling using Warner Lewis Equipment



Warner Lewis vessel fabrication plant



Warner Lewis Products



Carter Equipment



Velcon Filters



Isoil Flow Meters

Warner Lewis Jr. Industrie-Filter GmbH has been supplying aviation fuel filters from Velcon Filters Inc. and aircraft refuelling equipment from Carter Ground Fuelling Company to Europe, Africa and the Middle East for the last 30 years. Our range of flow meters from Isoil are ideal for aircraft refuelling applications.

Our head office in Frankfurt is centrally positioned for easy access throughout the region. Offices in the UK and France ensure we maintain close contact with the head offices of many of our major customers.

Filter vessels are fabricated in our own facility in Phillipsburg, Germany. Vessels are designed and constructed to such codes as ASME VIII, including "U" stamp, DIN, AD Merkblatt, Stoomwezen, TUV Austria, UDT Poland, EN729-1, HPO and others. We are licensed by Velcon to design and manufacture vessels meeting the API/IP 1581 specification.

Considering the safety and quality issues associated with aircraft refuelling, in 1996 we attained accreditation to ISO9002, based on documented procedures which had been in place for many years.

Warner Lewis Jr. Industrie-Filter GmbH has provided much expertise to the aircraft refuelling industry, benefiting from decades of experience in house. Along with complete support for the products distributed, there have been over the years, a number of products designed and manufactured by ourselves. The most recent is a differential pressure gauge providing features previously unavailable in similar products.

Velcon.



ISOIL

Velcon Filters

Velcon manufacture the most extensive line of aviation industry qualified and tested fuel filtration products available. Their filter water separators have passed numerous tests qualifying them to the API/IP 1581 specifications.

Velcon filter separators are designed for ease of maintenance with one piece threaded base coalescers and Teflon® coated separators. The Velcon coalescer has been field proven to give exceptionally long service life. Ongoing qualification testing in Velcon's state of the art test facility in Colorado Springs, ensures they stay ahead of the competition.



Velcon.



Velcon operates the world's most advanced aviation fuel filtration research laboratory



Velcon monitor series cartridges are designed to provide superior performance and reliability. A patented combination of media absorbs water and filters solids that may be present in the fuel. The Velcon monitor cartridge has been tested and qualified and shown to exceed the requirements of the API/IP 1583 specification.

The Velcon range of water absorbent elements are manufactured in sizes that allow upgrading of existing filter water separators to the latest filter water monitor technology and also meet the requirements of the API/IP monitor specification.



Velcon coalescer separator and monitor elements



Coalesced water drops releasing from the knitted sock at the outside surface of the cartridge



Carter Ground Fueling



J C Carter Company Inc., a subsidiary of Argo-Tech Corp. has been a recognised leader in the design and manufacture of centrifugal pumps, control valves, fuel control components, aircraft ground refuelling equipment and other specialised products for both commercial and defence aerospace applications since 1946.

Since the company's inception Carter's reputation has been based on their engineering capability, working with industry leaders to develop timely solutions to customers' designs.

Carter Ground Fueling, a division of Argo-Tech was established to provide special attention to the demands of the aircraft refuelling market place which Carter recognises as different from the aerospace market.



Carter 64200 refuelling nozzle

Carter has led the industry in the development of the modern ground refuelling equipment, from the early manually operated hydrant pit valves to the latest dual pilot valves.

The Carter underwing refuelling nozzle is the industry leader, where many model 60427 nozzles are still in service after twenty years or more. Over recent years Carter concentrated their efforts on shorter and lighter nozzles with features to improve handling and operation.



Aircraft refueller



Hydrant pit connection



Carter 60700-1 coupler



Carter digital pressure controller

The Carter hydrant input coupler has proven to be an excellent secondary control and deadman valve. Moving with the times though, Carter pioneered a new concept in pressure control, the digital pressure control system. These units were first installed at various airports around the world in 1996.



Isoil Flow Meters

Isoil has specialised in the manufacture of positive displacement flow meters for over 25 years. By virtue of excellent design and development the meters are noted for their exceptional accuracy over a wide range. In service this accuracy is maintained over a long period of use.

The simplicity of the design and the proven reliability make the Isoil BM meters ideally suited for aircraft refuelling application, with the calibration mechanism permitting fine adjustments where necessary. The meters are approved by various European Weights and Measures offices.



Mechanical counters have been a standard on flow meters for many years utilising mechanical calibrators. Isoil developed an electronic counter which provides linearization of the meter curve, temperature compensation and outputs for remote readouts and data capture.

ISOIL



Isoil VEGA electronic counter



Isoil TEX-6 remote totaliser

The Isoil remote electronic totaliser is ideal for displaying batch volume from a flow meter such as on the deck of a hydrant dispenser.

With the majority of Isoil flow meters currently being installed in fuel terminals and refineries, metering various hydrocarbons, many years of trouble free service can be expected in aviation kerosene duty.



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